D7212 Control Panel

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Invented for life

▶ Four programmable areas

▶ Eight on-board points of protection, including one powered point optimized for smoke and heat detectors

▶ 12 VDC, 1.2 A auxiliary power

▶ 12 VDC, 2 A alarm power

▶ Built-in digital communicator with phone line monitor

The D7112 Control/Communicator is an "installation flexible" alarm processing control panel. It gives you the flexibility to use reliable spread spectrum premises RF points, hard-wired multiplex points, and on-board points for the detection of intrusion, fire, and system supervisory events.

Security system information is processed, formatted and transmitted to the central station using a built-in digital modem communicator. The D7112 supervises all internal functions and external circuits, reports its status to one or more central station receivers, and displays system information on command centers. It can also print events on an optional external printer.

The D7112 features area programming. Area programming allows you to assign points of protection and users to separate areas. Each area can function as a separate alarm system. Up to four areas can be used in the system.

Through programming and accessory modules, each area can have separate alarm bell, loop status annunciation, arm status annunciation, and smoke detector sensor reset relays.

The D7112 can report up to four different account numbers to the central station receiver.

Functions

System Command Centers
On-remises point and system status annunciation is provided through D1254 Alpha III Command Centers. Up to four supervised command centers can be connected to the D7112 (more can be installed if supervision is not necessary).
The D1254 Alpha II Command Center features a 16-character English language display used for system status, area status, and point status, custom point text, and the Easy Menu system.

Command Center Menu System
The D7112 features a user-friendly command center menu structure. The displays on the D1254 Command center lead the user through a series of menus. The user can pick the menu and the function they want. The command center then leads them through the steps necessary to execute the function. All functions are programmable and can be enabled or disabled by area, or may require a passcode.
The D7112 also provides a programmable user interface so you can customize the command center and further simplify operation. Four Easy Menus can be programmed to give your customer easy access to frequently used command center functions without going through the menu structure.

Many functions can also be accessed using the traditional command structure. This allows the user to execute specific functions with just a few keystrokes.

User Passcodes
The D7112 can be programmed with up to 25 individual passcodes. Each passcode can be 3 to 6 digits in length with no fixed digits. Each passcode can be enabled or disabled in each area individually, and many be programmed to activate a relay when entered at the command center.

Point Expansion
- Up to 48 points-of-protection (eight on-board and 40 off-board)
- Reliable spread spectrum premises RF points
- Hard-wired multiplex points
- On-board hard-wired points

Eight on-board points of protection are provided with the D7112. An expansion interface and up to 40 additional points can be added to the system to provide up to 48 points of protection. Each point is individually programmed and can be used to monitor all types of burglar alarm, fire alarm, and supervision devices.

Points of protection are annunciated with custom text at the D1254 Alpha III Command Center. Expanded point information can be reported to a Radionics D6500 Receiver. Summary point information can be sent to other receivers in BFSK format.

Each point can be assigned to any one o the four areas. Points can be assigned in any order – numerical sequence is not important. Points can be re-assigned to a different area without changing the point number.

Expanded Modem II Reporting
The Modem II format, available with the Radionics D6500 Receiver and the D7112, adds these reporting capabilities – to name just a few:
- Reports actual point number
- Reports actual user number
- Reports bypassed points
- Reports relay activation
- Opening/closing reports by up to 25 users
- Late to open/close, early to open/close, fail to open/close
- Separately identified opening/closing reports from each of the four areas

Phone Routing
- Three different phone numbers
- Specify Modem II of BFSK reporting for each phone number individually
- Six event report groups:
  - Fire alarm and restoral
  - Fire trouble and restoral
  - Non-fire alarm and restoral and cancel
  - Non-fire trouble and restoral
  - Open/close service

The D7112 has six phone routing report groups. Each of the three receiver phone numbers can be designated as either a primary, back-up or duplicate destination for each report group. The reporting format for each phone number is programmed separately. This allows you to send different kinds of information to various receiving sites, and either detailed (Modem II) reports to the D6500, or summary (BFSK) reports to other receivers.

Logger
- 70 event memory
- Remote event retrieval
- Local Only and reporting events
- Events contain Time, Date, Event Account#, Area#, User ID, Point Text

Events are automatically stored in the D7112's memory log (up to 70 events). The panel remembers the time date, event, account number, point number, user ID, and point text for each event.

The events in memory can be retrieved with a D5300 Remote Account Manager II (RAM II), viewed from a special "service menu" at a command center and/or printed on a Local Printer. When events are retrieved using RAM II you can select specific types of event categories and generate reports.

Local Printer
- Supervised
- All events print
- Events contain Time, Date, Event, Account#, Area#, User ID, Point Text

Events can be printed on a standard parallel printer when a D9131 Printer Interface is connected to the D7112. The events are printed as they occur and are stored by the Logger. The event information is printed in an eight character format.

Logger/Printer Applications
Logger and Local Printer are ideally suited for the customer who would like to have a record of opening and closing without having to pay expensive telephone bills. Using Logger and RAM II, you can retrieve the security system events periodically using one cost-effective phone call, rather than two, three, four or more calls each day.

When reporting in Modem II format, the D7112 can be programmed to send a report when the event log is approaching capacity. When the log reaches 85% full, the D7112 calls theD6500 and sends a report so that RAM II can retrieve the events.

Troubleshooting is simplified because exact record of events is available through the RAM II or the local Printer. In addition, a command center function available only at the service level lets the technician specify a date when view all the of the system events which occurred since that date. The technician can also temporarily connect a printer to the panel and print those same events on command.

Opening and Closing Windows
- Suppress scheduled opening and closing reports
- One opening and one closing window for each day of the week
- Holiday override
- Automatic arming at the end of the closing period

You can set up an opening time period and a closing time period for each day of the week so that only exceptional openings and closings are reported. This substantially reduces the telephone line costs for reporting systems where local reporting (using a Local Printer) or periodic event retrieval (via RAM) is sufficient for non-exception conditions. Three holidays can be programmed for days when opening and closing reports should not be suppressed.

Another advantage in using the opening and closing windows feature is that you can program individual areas to automatically arm when the closing window expires for the area.

Installation/configuration notes

Accessories for the D7112
D1254 Command Center
Remote arming station which can be supervised. Features a 16 character alpha-numeric display and speaker capable of several audible tones.

D8129 Octo-Relay Module
Provides eight Form C dry contact relay outputs for responses to alarm, trouble and other system conditions. The D8129 can be operated on an event driven basis, manually operated from the D1254 Command Center, and remotely operated using the D5300 Remote Account Manager II. (D8125X required).

D9131 Parallel Printer Interface Module*
Provides a parallel printer output in an eighty character format.

D5200 Programmer
Provides on-site programming for D7112 and other Radionics products.

D5300 Remote Account Manager II (RAM II)
Provides Remote Programming capability for D7112 and other Radionics products. Also used to retrieve events stored in D7112's "Logger" memory.
Hard-wired Multiplex Point Expansion (D8125X, D8126U/T, D8127U/T)
RF Spread-Spectrum Point Expansion (D7125, D7121)
D122 Dual Battery Harness
D125A Powered Loop Interface Module
D127 Reversing Relay
D129 Dual Class A Initiating Circuit Module
D130 Relay Module
D192A Bell Circuit Supervision Module
D268/D269 Independent Point Control (works with on-board points only)
D279 Independent Point Control (works with on-board points only)
D728 Dual Phone Line Switcher
D8121A or D8122 Derived Channel S.T.U.
D8130 Release Module
D8132 Battery Charger Module
M801 (6"), M802 (8"), M803 (10") Bells
M806 (10") Bell
D7102 Mounting Skirt

D7103 Enclosure (features a removable door, comes with lock and key)
D8103 Enclosure
D8109 Fire Enclosure
D8108A Attack Resistant Enclosure

Parts included

D7112 includes:

Quantity	Component
1	D7112 Circuit Assembly (D7112LC)
1	D7103 Enclosure (with lock and key)
1	D1640 Transformer

D7112M includes:

Quantity	Component
1	D7112 Circuit Assembly mounted on a D7102 Mounting skirt

The D7112M can be installed in the D8103, D8108A, or D8109 Enclosure. Transformer is ordered separately.

Technical specifications

Voltage Input

Primary:	16.5 VAC, 40 VA class 2 plug-in transformer
Secondary:	12 VDC, 7 Ah rechargeable battery

Current Requirements[1]

Idle:	130 mA
Transmitting:	165 mA

Continuous Power Output

1.2 A maximum at 10.2 to 13.8 VDC

Switched Aux Power:	Current drawn from auxiliary voltage supply, may be interrupted (switched off) momentarily from the command center.

Alarm Power Outputs[1]

2A maximum at 10.2 to 13.8 VDC supplied on alarm. Output pattern may be Steady, March time, California Standard or Temporal code 3. Fire output and burglary output patterns are programmed separately.

[1] To comply with UL 948 and 865 standards for fire alarm installations, the total power output for the 1.2 A provided by the primary power supply (rectified AC). If current draw for the system exceeds 1.2 A at least one D8132 must be installed to provide an additional 1.2 A. Do not exceed individual terminal outputs specified above. Combined current draw must never exceed 3.0 A.

Telephone Connections

One TelCo Line:	RJ31X jack can be interfaced with the D7112.
Two TelCo Lines:	Install Radionics D728 Dual Phone Line Switcher for two phone line service. Supervision supplied.

Ordering information

D7212 Control Panel
The D7212 (expanded version) Control Panel is no longer manufactured and has been replaced by the D7412G Control Panel. Product literature is available here for technical support of the D7212 in existing installations.
Firmware Update Kits are available for this product. Refer to the D9412G/D7412G Program Entry Guide when programming a D7212 Control Panel.
Order number **D7212**